

SAFETY DATA SHEET

HA20

Page 1

Issued: 06/07/03

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: HA20

Use / description of product: Cooling system corrosion inhibitor. Corrosive. Liquid.

Company name: Howlett Associates Water Treatment Ltd

Challenge House

Mitcham Road

Croydon

CR0 3AA

Tel: 020 82398865

Fax: 020 86836460

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients: SODIUM SILICATE 20-30%

CAS: 1344-09-8

EINECS: 215-687-4

[Xi] R41; [Xi] R38;

- 1-HYDROXYETHYLENE-1,1-DIPHOSPHONIC ACID,60% SOLUTION <10%

[C] R34;

- POLYCARBOXYLIC ACID <10%

[Xi] R36/38;

- POTASSIUM HYDROXIDE <10%

CAS: 1310-58-3

EINECS: 215-181-3

[Xn] R22; [C] R35;

Contains: A blend of co-polymers and polyacrylates.

3. HAZARDS IDENTIFICATION

Main hazards: Causes severe burns. Risk of serious damage to eyes.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. Blistering may occur. Severe burns may occur.

Eye contact: There may be irritation and redness. The eyes may water profusely. Corneal burns may occur.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

[cont...]

4. FIRST AID MEASURES (ACTION)

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. If substance swallowed is corrosive, give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.
- Exposure hazards:** Corrosive. In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Transfer to a suitable container. Wash down the drain with large amounts of water.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Ingredients:** POTASSIUM HYDROXIDE
STEL (15 min exposure limit): 2 mg/m³
- Engineering measures:** Ensure there is sufficient ventilation of the area.
- Respiratory protection:** No specific recommendations, but respiratory protection may be required under exceptional circumstances.
- Hand protection:** Protective gloves.
- Eye protection:** Safety goggles. Face-shield. Ensure eye bath is to hand.
- Skin protection:** Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid
Colour: Pale yellow
Odour: Characteristic odour
Oxidising: Non-oxidising (by EC criteria)
Viscosity: Non-viscous
Relative density: 1.195 -1.205
pH: 11-13

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Temperature below 5 degrees C
Materials to avoid: Acids.
Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Ingredients: 1-HYDROXYETHYLENE-1,1-DIPHOSPHONIC ACID,60% SOLUTION
ORL RAT LD50 2400 mg/kg
SKN RBT LD50 >7000 mg/kg

- POTASSIUM HYDROXIDE
ORL RAT LD50 273 mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.
Bioaccumulative potential: No bioaccumulation potential.
Other adverse effects: Do not allow concentrated product to enter rivers or water courses.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Disposal should be carried out by licenced contractors.
Disposal of packaging: Containers must be disposed of in a safe way.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3266 **ADR Class:** 8
Packing group: III **Hazard ID no:** 80
Labelling: 8
Shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

IMDG / IMO

UN no: 3266 **Class:** 8

Packing group: III
Marine pollutant: .

EmS: 8-15
Labelling: 8

IATA / ICAO

UN no: 3266 **Class:** 8
Packing group: III **Packing instructions:** 820
Quantity: 60 L
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.



Risk phrases: R35: Causes severe burns.
 R41: Risk of serious damage to eyes.

Safety phrases: S24/25: Avoid contact with skin and eyes.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28: After contact with skin, wash immediately with plenty of water.
 S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. ADDITIONAL INFORMATION

Risk phrases used in s.2: R41: Risk of serious damage to eyes.
 R38: Irritating to skin.
 R34: Causes burns.
 R36/38: Irritating to eyes and skin.
 R22: Harmful if swallowed.
 R35: Causes severe burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.